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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,078	06/20/2003	Kenneth Roger Jones	1033-SS00380	7047	
60533 TOLER SCHA	7590 06/28/2007 FFER, LLP	MINER			
8500 BLUFFSTONE COVE			HAMANN, JORDAN J		
SUITE A201 AUSTIN, TX 7	8759		ART UNIT	PAPER NUMBER	
			2616		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	F
,	10/601,078	JONES ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jordan Hamann	2616	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed the mailing date of this communication. D (35 U.S.C. § 133).	·
Status			
 1) ☐ Responsive to communication(s) filed on 20 Jule 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9)☑ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 20 June 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine	☐ accepted or b)☒ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/3/03,3/22/06,12/8/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 100 in paragraph 1016 and 140 in paragraph 1018. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 112, 114, 116, 118, 120 and 124. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either

"Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities: on the third line of paragraph 1016 "includes and upper level communication" should be –includes an upper level communication--.

Appropriate correction is required.

4. Applicant is advised that should claims 3, 4, and 8 be found allowable, claims 17, 18 and 19, respectively, will be objected to under 37 CFR 1.75 as being substantial duplicates thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1, 4-9, 11-14, 18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Cerami et al (US 6,981,039 B2).

With respect to claim 1, Cerami discloses a method comprising:

inquiring, from a remote location (proactive network management system 300 of Figure 3 receives alarms in indications of failure and queries the network 102, column 9 line 39 – column 10 line 35), a status of an upper-layer communication indicator (soft alarms are failures of the logical network, layers 2 and above of the Open Systems Interconnect (OSI) model, column 10 lines 13-18);

entering the status into data storage (records of the alarms are created and information gathered from the network is stored to be analyzed to determine and isolate the root cause failure, column 9 line 39 – column 10 line 35);

performing a first set of actions when the status indicates valid upper-layer communication (when there is no actionable soft alarm, other types of failures are checked for); and performing a second set of actions when the status indicates invalid

upper-layer communication (when there is an actionable soft alarm, the fault management system performs different actions depending on the type of failure and whether or not the failure can be resolved automatically, column 9 line 39 – column 10 line 35)).

With respect to claims 4 and 18, Internet Protocol (IP) is a layer 3 protocol of the OSI model.

With respect to claim 5, Cerami discloses a service technician entering a failure into the proactive repair system (column 13 lines 44-52).

With respect to claim 6, Cerami discloses a service technician following a resolution to repair a fault (column 5 line 51 – column 6 line 8) and assisting a customer who has called in with a fault (column 16 lines 29-39).

With respect to claims 7, 8 and 19, Cerami discloses corrective actions being performed at the remote location, including gathering information for a service technician to perform a corrective action (column 13 line 44 – column 15 line 30, the corrective actions are interpreted to occur at any place of the network depending on the type and position of fault, and whether the fault is automatically resolvable).

With respect to claim 9, Cerami discloses a transceiver (Figure 2 Element 240 and Figure 4 Element 204) comprising: a connection port configured to communicate data signals from a computer (Figure 2 Element 249) to a service provider device (Figure 4 Elements 236, 230 and 302); and a first status indicator configured to indicate at least a layer 3 or above communication status between the computer and the service provider device (soft alarms are failures of the logical network, Internet Protocol (IP) is a layer 3 protocol of the Open Systems Interconnect (OSI) model, column 10 lines 13-18).

With respect to claim 11, Cerami discloses wherein the service provider device is a Digital Subscriber Loop Access Multiplexer (DSLAM) (Figure 4 Elements 236 and 230).

With respect to claims 12 and 13, ATM is a layer 2 protocol of the OSI model and a wide area network protocol.

With respect to claim 14, Cerami discloses hard alarms to indicate failures of the physical network (column 10 lines 5-12, layer 1 of the OSI model is the physical layer).

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Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 2, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cerami et al (US 6,981,039 B2) in view of Pitsoulakis (US 7,092,375 B2).

With respect to claim 2, Cerami does not disclose the CPE having a light emitting diode (LED).

Pitsoulakis discloses a DSL modem with LEDs to indicate the status and activities of various components of the access device (Figures 2-4 and column 4 line 40 – column 6 line 26).

Cerami and Pitsoulakis are analogous art because they are from the same field of endeavor of DSL networks.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include the status of an LED at the end-user in the information gathered for a service technician to perform a corrective action of Cerami (column 13 line 44 – column 15 line 30, the corrective actions are interpreted to occur at any place of the network depending on the type and position of fault, and whether the fault is automatically resolvable).

The motivation for doing so would have been to use an easily identifiable indicator for a specific status when requesting information from a user.

With respect to claim 15, Pitsoulakis discloses one of the LEDs is a power LED (column 4 lines 56-60).

With respect to claim 16, Cerami discloses a method of digital subscriber line service maintenance, the method comprising:

detecting a digital subscriber line (DSL) related troubleshooting event at a remote service terminal that supports an end-user computer having a DSL connection (proactive network management system 300 of Figure 3 receives alarms in indications of failure and queries the network 102, column 9 line 39 - column 10 line 35);

inquiring, from a remote location (proactive network management system 300 of Figure 3 receives alarms in indications of failure and queries the network 102, column 9 line 39 - column 10 line 35), a status of an upper-layer communication indicator (soft alarms are failures of the logical network, layers 2 and above of the Open Systems Interconnect (OSI) model, column 10 lines 13-18);

entering the status into data storage (records of the alarms are created and information gathered from the network is stored to be analyzed to determine and isolate the root cause failure, column 9 line 39 – column 10 line 35);

performing a first set of actions when the status indicates valid upper-layer communication; and performing a second set of actions when the status indicates Application/Control Number: 10/601,078

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invalid upper-layer communication (the fault management system performs different actions depending on the type of failure and whether or not the failure can be resolved automatically, column 9 line 39 – column 10 line 35)).

Cerami does not disclose the CPE having a light emitting diode (LED).

Pitsoulakis discloses a DSL modem with LEDs to indicate the status and activities of various components of the access device (Figures 2-4 and column 4 line 40 – column 6 line 26).

Cerami and Pitsoulakis are analogous art because they are from the same field of endeavor of DSL networks.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include the status of an LED at the end-user in the information gathered for a service technician to perform a corrective action of Cerami (column 13 line 44 – column 15 line 30, the corrective actions are interpreted to occur at any place of the network depending on the type and position of fault, and whether the fault is automatically resolvable).

The motivation for doing so would have been to use an easily identifiable indicator for a specific status when requesting information from a user.

9. Claims 3, 10 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cerami et al (US 6,981,039 B2) in view of Franklin (US 7,092,364 B1).

Cerami does not explicitly disclose the network implementing Point to Point Protocol Over Ethernet (PPPoE).

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Franklin discloses a DSL network listing PPPoE as a layer 2 protocol commonly used (column 6 lines 13-51).

Cerami and Franklin are analogous art because they are from the same field of endeavor of DSL networks.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use PPPoE in the DSL network of Cerami and include PPPoE parameters in the network information collected (column 7 line 25 – column 8 line 23) for performance management.

The motivation would have been to use a well known protocol in the DSL system of Cerami).

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jordan Hamann whose telephone number is (571) 272-8564. The examiner can normally be reached on Monday-Thursday 8:30-5:30 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JJH

CHAU NGUYEN
SUPERVISORY PATENT EXAMINER

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